LIST OF THE CLAIMS

Please amend Claims 1, 3, 18 and 20 as follows.

1. (Currently Amended) A method for providing updated system locality information (SLI) during runtime comprising:

collecting system locality information at boot time to be provided to an operating system, said system locality information describing distances between devices within an integrated processing system;

notifying [[the]] <u>said</u> operating system that a triggering event has occurred, wherein said triggering event potentially alters said system locality information; and providing <u>said</u> updated system locality information during <u>said</u> runtime to said operating system upon a request from said operating system, said updated system locality information reflecting <u>said</u> distances between <u>said</u> devices within said integrated processing system after [[the]] occurrence of [[the]] <u>said</u> triggering event.

- 2. (Original) The method of claim 1 further comprising: creating a system locality information table (SLIT), wherein said SLIT is populated with device distances collected at boot time.
- 3. (Currently Amended) The method of claim 2 wherein said notification of said operating system of [[said]] <u>an</u> addition causes said operating system to invoke a process for updating said SLIT.
- 4. (Original) The method of claim 3 wherein data for said update of said SLIT is provided to said operating system upon an invocation of an Advanced Configuration and Power Interface (ACPI) object.
- 5. (Original) The method of claim 4 wherein said ACPI object is _SLI.

200314313-2 Serial No.: 10/777,438 Examiner: Yanchus III, Paul B. 2 Group Art Unit: 2116

- 6. (Original) The method of claim 1 wherein said triggering event is based on an online addition of a device.
- 7. (Original) The method of claim 6 wherein said notification of said online
- addition is through a Bus Check notification.
- 8. (Original) The method of claim 1 wherein the triggering event is based on an online
- deletion of a processor device.
- 9. (Original) The method of claim 8 wherein said notification of said online deletion is
- through an Eject Request notification.
- 10. (Original) The method of claim 1 wherein the triggering event is based on an online
- reconfiguration of said integrated processing system, wherein said online
- reconfiguration affects distances between devices within said integrated processing
- system.
- 11. (Original) The method of claim 10 wherein said notification of said online
- reconfiguration is via a device that affected said distances.
- 12. (Original) The method of claim 11 wherein said notification of said online
- reconfiguration uses an ACPI object.
- 13. (Original) The method of claim 12 wherein said object is SLI Update.
- 14. (Original) The method of claim 3 wherein said update of said SLIT is by recreating a
- new table.
- 15. (Original) The method of claim 3 wherein said update of said SLIT is by augmenting
- and populating augmented cells with new system locality information.

- 16. (Original) The method of claim 3 wherein said update of said SLIT is by reducing and populating said SLIT with new system locality information.
- 17. (Original) The method of claim 3 wherein said update of said SLIT is by updating existing cells within said SLIT with new system locality information.
- 18. (Currently Amended) A computer program embodied on a computer readable medium for providing dynamically updated system locality information, the computer program causing a computer to perform the steps of:

creating a system locality information table, said system locality information table being populated with boot time system locality information, wherein said system locality information <u>table</u> describes distances between devices within an integrated processing system; and

updating said system locality information table upon receipt of a notification that a triggering event has occurred, wherein said triggering event may potentially alter said distances between <u>said</u> devices within said integrated processing system.

19. (Original) The computer program of claim 18 wherein said computer program further causes said computer to:

invoke a bus check notification upon an online addition of a device, wherein said bus check notification indicates to said operating system that a re-enumeration of a device tree needs to be performed, and wherein said operating system invokes a _SLI procedure that returns updated system locality information resulting from said online addition;

invoke an Eject Request notification upon an online deletion of a device, wherein said Eject Request notification indicates to said operating system that a re-enumeration of a device tree needs to be performed, and wherein said operating system invokes a _SLI procedure that returns updated system locality information resulting from said online deletion; and

invoke an SLI Update notification upon an online reconfiguration of said integrated processing system, wherein said SLI Update notification indicates to said

200314313-2 Serial No.: 10/777,438 Examiner: Yanchus III, Paul B. 4 Group Art Unit: 2116 operating system that a re-enumeration of a device tree needs to be performed, and wherein said operating system invokes a _SLI procedure associated with a device sending said SLI Update notification that returns updated system locality information resulting from said online reconfiguration.

20. (Currently Amended) An apparatus for updating system locality information comprising:

a system locality information table (SLIT) creator for creating a SLIT coupled to an operating system, said SLIT being populated with boot time system locality information, wherein said system locality information describes distances between devices within an integrated processing system;

a triggering event detector coupled to said operating system, said triggering event detector capable of detecting an occurrence of a triggering event, where said triggering event may potentially alter said distances between said_devices within [[said]] an_integrated processing system; and

a SLIT updator coupled to said operating system and further coupled to said triggering event detector, wherein, upon a receipt of a notification of an occurrence of [[a]] <u>said</u> triggering event from said triggering event detector, said SLIT updator provides <u>said</u> updated system locality information to said operating system based on said altered distances between <u>said</u> devices of said integrated processing system.

200314313-2 Serial No.: 10/777,438 Examiner: Yanchus III, Paul B. 5 Group Art Unit: 2116